## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019237

	**************************************	FC1/UP	2004/01923/	
A. CLASSIFICATION Int.Cl	ATION OF SUBJECT MATTER 7 F04C18/02			
According to Int	ernational Patent Classification (IPC) or to both nationa	l classification and IPC		
B. FIELDS SEA				
Minimum docum Int.Cl <sup>7</sup>	nentation searched (classification system followed by cla F04C18/02	assification symbols)		
Documentation s	earched other than minimum documentation to the exter	nt that such documents are included in th	e fields searched	
		tsuyo Shinan Toroku Koho roku Jitsuyo Shinan Koho	1996-2005 1994-2005	
Electronic data b	ase consulted during the international search (name of d	lata base and, where practicable, search to	erms used)	
C. DOCUMENT	TS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
Y A	JP 8-326671 A (Hitachi, Ltd. 10 December, 1996 (10.12.96), Par. Nos. [0002], [0014], lin Par. No. [0015], lines 15 to Par. No. [0016], lines 7 to 9 lines 1 to 4; Par. No. [0033] (Family: none)	es 13 to 16; 16; ; Par. No. [0030],	1-2,6-16 3-5,17-18	
Y A	JP 2003-307187 A (Hitachi, L 31 October, 2003 (31.10.03), Par. No. [0018], lines 10 to (Family: none)		1-2,6-16 3-5,17-18	
Y A	JP 8-170592 A (Hitachi, Ltd. 02 July, 1996 (02.07.96), Par. No. [0008], lines 14 to (Family: none)		2,6-8,10-16 3-5,17-18	
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international "Y" document of particular relevance; the claimed invention cannot be			cation but cited to understand invention	
filing date "L" document which may throw doubts on priority claim(s) or which is		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
special reaso	iblish the publication date of another citation or other in (as specified)	"Y" document of particular relevance; the considered to involve an inventive	step when the document is	
"O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family		
29 Marc	ch, 2005 (29.03.05)	Date of mailing of the international sea 19 April, 2005 (19		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No.		Telephone No.		

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tegory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A ·	JP 59-224493 A (Mitsubishi Electric Corp.), 17 December, 1984 (17.12.84), Fig. 3 & US 4564339 A1	4,6-8,10-18
;		